GPS Vehicle Tracker

User Manual

V6.4

GTLT2

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1. Product Overview

Thank you for your purchase of GTLT2 Vehicle GPS Tracker.The GTLT2 GPS/GSM Tracker is a vehicle remote position device with build-in GPS and GSM/GPRS modules. It is a small size, high accuracy remote location tracking device. Based on GPS satellite, it provides accurate position information under dynamic conditions.

Function List:

- Real time tracking via SMS or GPRS
- Track on demand
- Built in memory to store historical data
- Show location directly on mobile phone
- Track by time interval
- GSM blind area memory
- Inbuilt motion sensor for power saving
- SOS panic button
- Low battery alarm
- Over speed alarm
- Multiple Geo-fence alarm
- Movement alarm
- Turn on/off Car Engine
- Remote Update firmware by SMS

Applications:

GT-LT2 GPS/GSM vehicle tracker can be used for motorcycle, electric golf cart, car, and scooter. The devices built in antenna, integrative machine and easy to assemble.

For your safety:

In order to realize the full functions of this product, please read this manual carefully before starting to use the product.

1.	This product can only be maintained and repaired by qualified professional service personnel. If you detach this product for maintenance or repair, your warranty will be invalidated.
2.	When connecting the other devices, read carefully their instruction manuals, so as to carry out correct installation; do not connect incompatible device.
3.	Please use genuine original parts and qualified batteries and peripheral equipments, so as to avoid damage to this product.
4.	As this product is a high-tech product, please read carefully this manual before starting to use the product, so as to avoid inappropriate operation.
5.	Drivers should not operate this product while driving a vehicle, thereby, affecting safe driving.
6.	This product can work properly only when GSM communication is in good condition.
7.	Please reduce electromagnetic wave interference to the product; and use it properly.
8.	GPS communication is liable to be affected by environmental shielding; may fail to carry out positioning during certain circumstances. It will resume the positioning function as soon as it leaves the shielding environment. This is normal. Please do not worry when encountering such problem.
9.	Each signal sent out from the system will be confirmed for successful transmission in the base station of the mobile operator. However, if system stoppage occurs or if the mobile telephone is preset to a switch

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	off state by the customer, it cannot ensure successful transmission.
10.	For safety reason, do not tell the other people your GTLT2 mobile number, without taking precautions. Otherwise, your privacy may be compromised along with other safety problem.

2. Specification

GSM module	MTK6223D, GSM 900/1800/850/1900 dual-band or quad-band Support the TCP protocol
GPS Chipset	JRC chipset
GPS sensitivity	-164dB
C/A Code	1.023MHz chip rate
Channels	210 channel all-in-view tracking
GPS frequency	L1,1575.42MHz
GPS Position Accuracy	2.5 meters, CEP
GSM Position Accuracy	Later will realize
Velocity Accuracy	0.1m/s
Time Accuracy	Synchronized to GPS time
Cold Start	35sec.,average
Hot Start	1sec.,average
Warm Start	30sec.,average
Altitude Limit	18,000 meters (60,000feet) max.
Velocity Limit	515 meters/second (1000knots) max.
Acceleration Limit	Less than 4g
Operating temperature	-20°C－65°C
Humidity	5%To 95% Non-condensing
Dimension	88mm×46mm×18mm
Voltage	12V
Average Current When stand-by	<84mA
LED	Green/ Blue/ Red LED showing GPS、GSM and power status
Out set SOS Key	One SOS emergency key: for urgent call

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3. Wiring Installation

3.1. Product Parts List

GPS Tracker Unit	
SOS Button and Socket cables	
Battery	
User Manual(CD) (Optional)	

3.2. Precaution before Installation

1	Check if all the parts are included.
2	Prepare a SIM card for GSM communication. Use some other mobile phone to confirm that the PIN code has not been set and that it can dial out and receive telephone calls and SMS without problem.
3	Before install the SIM card; make sure to cut off power from the GPS Tracker unit. The correct installation method is to push the tray completely into the GPS Tracker unit, until you feel it is hooked by something.
4	Find a suitable place inside the car for installing the unit.
5	Check if all the wiring has been connected correctly; then connect the GPS Tracker unit to the power supply.
6	We don't provide the SIM card

3.3. INSTALLATION

3.3.1 Step 1: Install SIM Card

1	Remove the back cover of GTLT2. Insert the SIM card by sliding it into the card slot.

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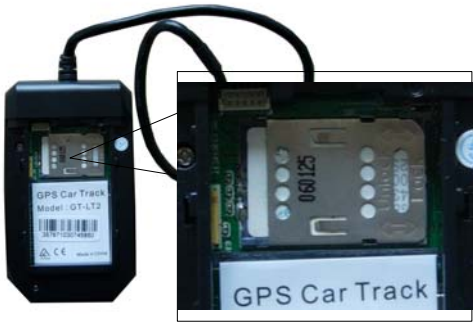
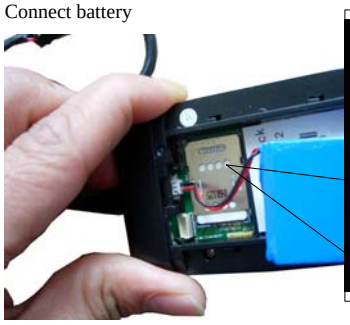
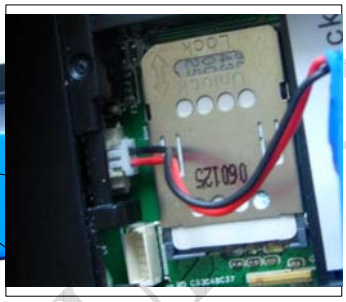


Connect battery





Put back the back cover.

2	Make sure to turn off the power before install the SIM card.
3	Make sure to deactivate the PIN code, so that the SIM card can operate without PIN protection.
4	Before install the SIM card to the GPS Tracker, please use a mobile phone to make sure the SIM card can make & receive phone calls without problem.
5	Before install the SIM card to the GPS Tracker, please use a mobile phone to empty the SMS storage of the SIM card.

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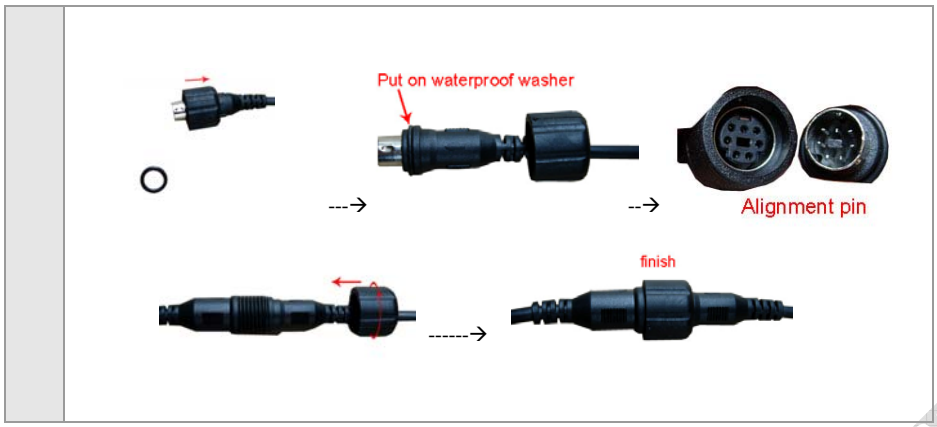
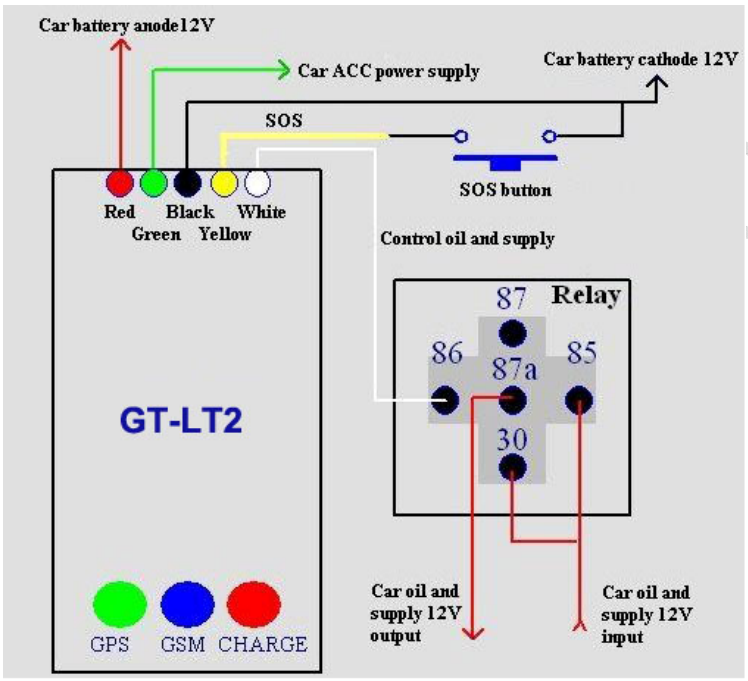


3.3.2 Wiring Description:



3.3.3 Description of GTLT2 LED :

LED State Description

Green LED--- indicate the GPS signal state

State	Means
No Lighting	Working, but no location or GPS module has turn off.
Flashing	Working and has located

Blue LED--- indicate the GSM signal state

State	Means
flash slow(1 second on and 1 second off)	no SIM card or not GSM net

flashlight once interval 8s	GSM receiver work well and standby

Red LED---indicate charge sate

State	Means
constant Lighting	charging
flash weak	charging was completed

4. SMS Command List

Note: **** is GPS tracker user password and the default password is 0000. The tracker will only accept commands from a user with the correct password. Commands with wrong password will be ignored.

Description	SMS Command	Example
Authorization	*Authorized phone number* user password (default 0000) *location number (1 or 2 or 3) **	*008613900000000*0000*1**(To set the first authorized phone number) *008613800000000*0000*2**(To set the second authorized phone number) *008613500000000*0000*3**(To set the third authorized phone number)
Remarks: To authorize phone numbers for receiving location reports or SMS alarms or phone calls. (1) Receiving SOS alert message: After press SOS button, GTLT2 will send sms alert and location coordinates to the first authorize phone number. (2) Receiving Geo fence alert message: when the GTLT2 is in or out of the preset square, GTLT2 will send send sms alert and location coordinates to the first authorize phone number.		
Set Time Zone (Default:E0)	896****DNN	8960000E08
Remarks: This command is used for correct time into your local time D=E/W, E means East Longitude, ahead of GTM time, W means West Longitude, behind GMT time. NN is your time zone. For example, China is in East Longtitude, GTM+8 time zone. Then we send 8960000E08		
Change GPS Tracker user Password	777+New Password+Old Password	77712340000
Remarks: The password will be changed from 0000 to 1234		
Enable SMS mode (Default mode)	700****	7000000
Remarks: This command is used for turn on sms mode		
Presetting by SMS for GPRS tracking (*Ensure that your SIM card supports GPRS connection prior to setting)*		
Enable GPRS mode	710****	7100000
The command to switch to GPRS mode.		
Set APN (Default:cmnet)	**Format 1:**#803#****#APN## **Format 2:**#803#****#APN# APN user	#803#0000#CMNET## #803#0000# APN# APN user name#APN password ##

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	name#APN password ##	
Remarks: (1)If no APN username and password are required, just input APN only. (2)Use format 2 if your APN requires APN user name and APN password. (3) APN is gateway to connect internet, Each country is different, please contact your SIM card provider for APN name.		
Set IP and Port (Default:0.0.0.0,0000)	#804#****#IP#port##	#804#0000#58.64.205.22#8886##
Remarks: IP is your server's IP and Port.		
Upload in preset interval when car moving(ACC ON) (Default:0,0)	#805#****#T#N##	#805#0000#30#1##
Remarks:(1) T= Record location by interval, from 10 to 65535 in the unit of second. (2)N= Upload Record Location Quantity Per Time, from 1-50. (3)Upload location data interval=T*N In this example: GTLT2 will send location every 30 seconds, 1 location reports per time **when car moving.(ACC ON)** N=0, close upload data by preset interval, the gps tracker will reply "GPRS Timer Stop"		
Upload in preset interval when car stop(ACC OFF) (Default:0,0)	#809#****#T#N##	#809#0000#1800#1##
Remarks:(1) T= Record location by interval, from 10 to 65535 in the unit of second. (2)N= Upload Record Location Quantity Per Time, from 1-50. (3)Upload location data interval=T*N In this example: GTLT2 will send location every half an hour, 1 location reports per time **when car stop.(ACC OFF)** N=0, close upload data by preset interval, the gps tracker will reply "GPRS Timer Stop"		
Upload Present Location Immediately	#806#**** ##	#806#0000##
Remarks :(1) The GPS Tracker will send confirmative sms "Start GPRS Upload" to the first phone number on **Authorization** (2)The GPS Tracker will upload present location to server immediately, the status on the data will show "sms"		
Set History Data Record Interval	#807#****#X##	#807#0000#30##
Note: This command is applicable in tracking by GPRS mode only. Remarks:(1) X is the location sample interval to record history data X=0-999,in the unit of seconds (2) X=0, close history data uploading function (3) GTLT2 can store 3000 waypoints, each waypoint is 100B(Byte). If more than 3000 waypoints, the new waypoint will override the old waypoint directly. (4) If GTLT2 is in power saving mode, and remain still. The history data uploading function will close automatically, until GTLT2 is activated by incoming sms/phone call. In this example: The gps tracker will record waypoints every 30 seconds		
Upload History Data (Default:0)	#808#****#X##	#808#0000#24##
Note: This command is applicable in tracking by GPRS mode only. Remarks:(1) Upload all stored data: #808#****## (2) Upload 24hours' data: #808#0000#24## In this example: The gps tracker will upload the stored data to sever		
Change GPRS Service User name on GPRS mode (Default:V500,0000)	#801#****#New GPRS Service User Name##	#801#0000#newuser##
Remarks: The GPRS Service User name will be changed to newuser		
Change GPRS Service Password on GPRS mode	#802#****#New GPRS Service Password#Old GPRS Service Password##	#802#0000#1234#0000##

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Remarks: The password will be changed from 0000 to 1234		
Track on Demand-Reply with longitude, latitude, speed and date	666****	6660000

Remarks: Get the current location of the tracker, send this SMS or make a telephone call directly to the tracker and it will report its longitude and latitude by SMS with format as follows:

Data format:

Lat: Latitude Direction (+/-) Latitude Value (Accuracy for 5 after the decimal point)

Long: Longitude Direction (+/-) Longitude Value (Accuracy for 5 after the decimal point)

Speed: Speed KM/H (Accuracy for 2 after the decimal point)

Direction: Direction (Accuracy for 2 after the decimal point)

Date: Date YYYY-MM-DD

Time: Time HH：MM：SS (GMT)

BS: Base Station information

Fix: Location state (A/V)

ID: IMEI

STATE: Message state

Effective data format:

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: A

ID: 353686009002030

STATE: SMS

Invalid data format:

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

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Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: V

ID: 353686009002030

STATE: SMS

Note: If in the cold start and GPS no position, it will return to the void of information:

eg: ERROR GPS GPRMC FRAME DATA

BS: 27971054”

ID: 353686009002030

STATE: SMS

Track on Demand -Google Link	669****	6690000

Remarks: Send this command to the tracker and then you receive an SMS with an http link. Click on the link then the location can be shown directly on Google Map on your mobile phone. For example:

http://maps.google.com/maps?f=q&hl=en&q=22.622448,114.034057&ie=UTF8&z=16&iwloc=addr&om=1E

Google Earth and Google Map

Download Google Earth from http://earth.google.com/.

Start Google Earth (For more information about Google Earth please refer to http://earth.google.com/) or go to http://maps.google.com in your Internet Explorer.

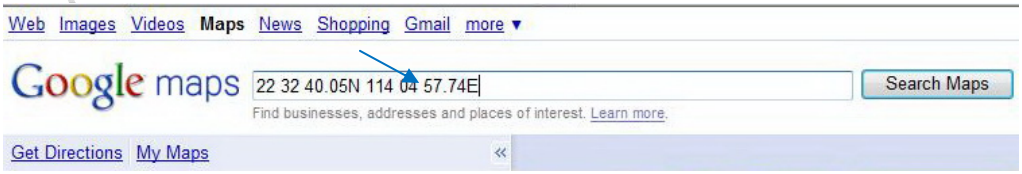
Input the latitude and longitude that you receive from the tracker by SMS and click the search button. Google Earth or Google Maps will display the location for you.

Example:

When you receive: Latitude = 22 32 40.05N Longitude = 114 04 57.74E

Type as the following picture shows:

(Note: you should input the latitude and longitude as: 22 32 40.05N 114 04 57.74E)



And then you can find the location of your tracker:

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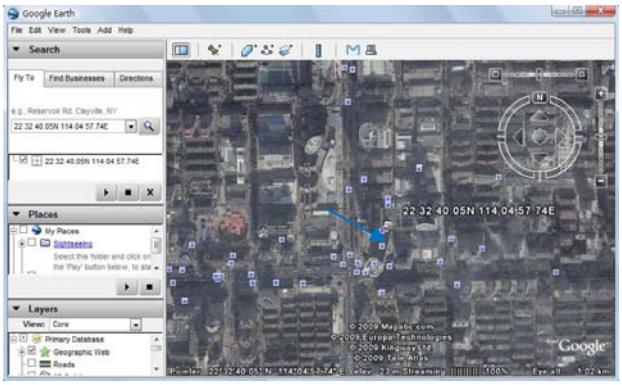

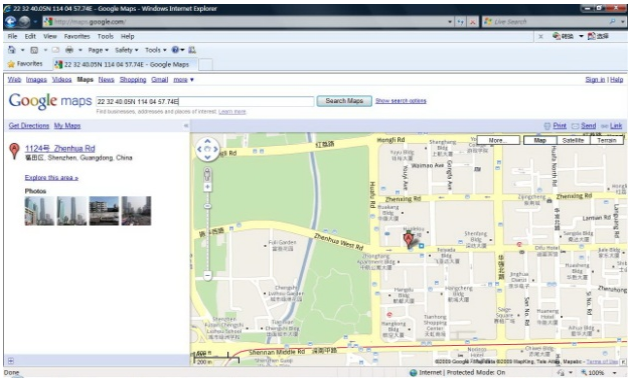

Or you can use local map software on PDA or car navigation device to input the coordinates.

Track by Interval on SMS mode (Default:0)	4XX****	4300000
Remarks: To set interval for automatic timed report. XX is the interval in minute. If XX=00 to turn off tracking by time. In this example, the tracker will send location data back to your mobile phone every 30 minutes.		
Turn on/off Alarm Call (Default:ON)	150**** 151****	1500000 1510000
Remarks: (1) 150**** is the command to turn off alarm alert call. After sending this command, the gps tracker will not call to the preset phone number when sos button pressed/in or out of preset geo-fence area/over-speed alert (2) 151**** is the command to turn on alarm alert call. After sending this command, the gps tracker will call to the preset phone number when sos button pressed/in or out of preset geo-fence area/over-speed alert		
Over speed alarm (Default:0)	#122#****#X##	#122#0000#250##
Remarks: X is the speed KM/H, X=0-999 X=0, close over speed alert function After sending this command, if speed more than 250, gps tracker will send present location and sms alert: Over speed		
Turn On/Off Main Power Cut Alarm (Default:OFF)	011**** 010****	0110000 0100000
Remarks: If the GPS tracker is pulled out from car battery, the gps tracker will send sms alert to authorize phone number. Turn on main power cut alarm: 011****,**** is the default password. Default:0000 Turn off main power cut alarm: 010****,**** is the default password. Default:0000		
Low Power alarm function		
Remarks:when GTLT2 working voltage less than preset default voltage values, the gps tracker will send sms alert to authorize phone number. Total sending 3 times, 1 minute intervals		
ACC detecting charge function		
Remarks:GTLT2 via external ACC cable to check car ACC state, when car moving (ACC ON), GTLT2 built-in battery will charge by car battery, when car stops (ACC OFF),GTLT2 built-in battery will stop charge by car battery.		

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Turn On/Off ACC Switch status prompt (Default: ON)	091**** 090****	0910000 0900000
Remarks:(1)0910000,Turn on ACC Switch status prompt (2)0900000, Turn off ACC Switch status prompt		
Turn On/Off Vehicle Movement alarm by ACC Detection (Default: OFF)	008****Rzzz.z 009****	0080000R0.5 0090000
Remarks:(1)zzz.z=0.1~999.9 unit:KM Moving alarm Radius. (2)008****Rzzz.z Turn on vehicle movement alarm by ACC Detection (3)009**** Turn off vehicle movement alarm by ACC Detection Example: 1. 0080000R0.5 After send 0080000R0.5 successfully, the GPS tracker will reply "SET MOVE RADIUS OK" Then it will set the 0.5KM as movement radius, if the GPS tracker detected that the ACC status of GTLT2 changed from ACC On to ACC Off, after 3 minutes, no matter the present location is valid or not, the GPS tracker will use the present location as center, and 0.5KM as radius. When the GPS tracker is out of this 0.5KM, the GPS tracker will send sms alert "State:ACC OS" to all the 3 authorized phone numbers; when the gps tracker re-enter into the 0.5KM, the gps tracker will send sms alert "State: ACC RS" to all the 3 authorized phone number. When GPS tracker detected ACC status of GTLT2 changed from ACC Off to ACC On, the movement alarm will close. Endless Loop 2. 0090000 After send this command successfully, Vehicle Movement alarm by ACC Detection function is closed.		
Turn On GPS Module Power Down mode (AUTO mode)	100****	1000000
Remark: to set power down mode when the tracker is inactive or stationary for 5 minutes. 1. GTLT2 will reply "VIBRATION SENSOR ON OK" . The GTLT2 will in power saving mode on both sms and gprs mode. 2. In Power Down mode, GPS module stops working until it is activated by message, incoming calls, and movement. 3. You can send 222**** (**** is the 0000 default password) to wake up the GTLT2.		
Set GPS Module Special Power Saving Mode	199****SxxxLyyHzz	1990000S030L01H03
Remark: S030 means the GPS module of GTLT2 will close for 30minutes first L01 means the gps module of GTLT2 will open for 1 minute in this stage, if the GTLT2 can get location in 1 minute, then it will not go into the next stage; if the GTLT2 can not get location in 1 minute, then it will go into next stage. H03 means the gps module of GTLT2 will open for 3 minutes total, and then the gps module of GTLT2 will open for 2 seconds in this stage.(H03 Minus L01=2 minutes) Endless Loop (1) xxx=1-255, yy=1-98,zz=3-99 (2) zz can not be less than yy (3) The setting will not change if you turn on/off/restart the GTLT2, or reset the GTLT2 (4) If xxx=0, then the GTLT2 will close "gps module special power saving mode"		
Open GPS Module Special Power Saving Mode	188****	1880000
Remark:(1) After set the parameters of GPS Special Power Saving Mode, then you can send 188**** to open GPS Special Power Saving Mode (2) During GPS Module closed period, the uploading locations by preset interval in GPRS mode will stop; if GPS Tracker can get location when the GPS module open, the uploading location by preset interval in gprs will work (3) During GPS Module closed period, any sms commands will activate the gps module of GTLT2, GTLT2 will go back into the GPS Power		

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Saving Mode again after the next circle of GPS Special Power Saving Mode

(4) If you need real time tracking, please do not use GPS Special Power Saving Mode

GPS Tracker will reply “GPS AUTO MODE ON OK”

Cut/recover car engine	900**** 901**** 902**** 903**** 940**** 941****	9000000 9010000 9020000 9030000 9400000 9410000

Remarks: You need to connect a relay to cut/recover car engine.

1.Cut Car Engine

900**** is the command to cut car engine.

901**** is the command to double confirm cutting car engine.

940=900+901

2.Recover car engine

902**** is the command to recover car engine.

903**** is the command to double confirm recovering car engine.

941=902+903

Set Single Geo-fence Alarm: The first method	003****E/Wdddmm.mmmmN/Sdd.mmmmRzzz.z	0030000E11406.0024N2233.4230R0.5

When the tracker moves out of a preset square scope, it will send an SMS alarm to the authorized phone number for SOS.

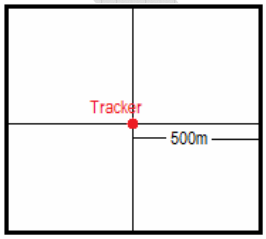
Remarks:(1) E represents East Longitude, W represents West Longitude; N Represents North Latitude, S Represents South Latitude.

Edddmm.mmmm is the Longitude in the unit of degree and minute (ddd is the degree, mm.mmmm is the minute) (Accuracy for 4 after the decimal point, the following zero cannot omit).Ndddmm.mmmm is the Latitude in the unit of degree and minute (ddd is the degree, mm.mmmm is the minute)(Accuracy for 4 after the decimal point, the following zero cannot omit).

(2) zzz.z is the radius from 0.1KM to 999.9KM, If the decimal point of Rzzz.z is 0, you cannot omit the 0. For example,radius is 1KM, you need to send 0050000R1.0

(3) After set successfully, the GTLT2 will reply: SET GEO-FENCE OK

Example: 0030000E11406.0024N2233.4230R0.5



Set Single Geo-fence Alarm: The second method	005****Rzzz.z	0050000R0.1

Remarks:(1) zzz.z is the radius from 0.1KM to 999.9KM

(2) After receiving this command, gps tracker will read the present location immediately,

If the Location is valid data:Fix:A(please refer to **4.2 Tracking** for details), the gps tracker will use the present location as center, and value of Rzzz.z as radius; If gps tracker is in or out of this area, you will receive sms alert.

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If the location is invalid during 50 seconds, the gps tracker will reply:ERROR GPS DATA, TRY AGAIN LATER (3) If the decimal point of Rzzz.z is 0, you cannot omit the 0. For example,radius is 1KM, you need to send 0050000R1.0		
Turn on/off Single geo-fence alarm (Default:OFF)	211**** 210****	2110000 2100000
Remarks:The default geo fence is Turn on (1) 211****: Turn on single geo-fence alarm When the GPS tracker is in/out of the preset square, GTLT2 will send sms alert and location coordinates to the first authorize phone number, Meanwhile, GTLT2 will call the first authorized phone number first; if failed, then call the second authorized phone number; if failed once again, then call the third authorized phone number. (2) 210****: Turn off single geo-fence alarm		
Set multiple geo-fence alarm	006****GX,Y,E/W+Longitude Left+N/S+Latitude Upper, E/W Longitude Right+N/S Latitude lower	0060000G1,IO,E114.10004N22.55705,E115.10006N23.55706
Remarks:(1) X=1-16 X is the geo-fence number, you can set 16pcs geo-fence total. (2) Y=I/O/IO, default is IO I means geo-fence in alarm; O means geo-fence out alarm; IO means geo-fence in and geo-fence out alarm (3) E represents East Longitude, W represents West Longitude; N Represents North Latitude, S Represents South Latitude (4)The command is always valid if you restart,turn on/off the gps tracker (5) The command is not valid if you reset to factory (6) The GPS tracker will send sms to the first authorized phone number if it's in or out of the preset area		
Turn on multiple geo-fence alarm	311**** 311****GX	3110000 3110000G5
Remarks:(1) 311****: the command to open all geo-fence alarm (2) 311****GX, the command to open one of the geo-fence alarm X=1-16		
Turn off multiple geo-fence alarm	310**** 3100000GX	3100000 3100000G5
Remarks:(1) 310****: the command to close all geo-fence alarm (2) 310****GX, the command to close one of the geo-fence alarm X=1-16		
Turn on/off GPS Module (Default:ON)	222**** 333****	2220000 3330000
Remarks: (1) 222****: Turn on GPS module (2) 333****: Turn off GPS module		
Request the current all number and password	*GTAN#	*GTAN#
Remarks: Received this command , GPS Tracker will via SMS return the current all number and password. SMS format:U1:Number1 U2:Number2 U3:Number3		

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UP:0000 (GPS Tracker user Password)

SC:,0000 (SMS platform Number,Password)

Read All Parameters	*RCONF#	*RCONF#

Remarks: This is the command to read all the present parameters including sms/gprs mode,interval,ip,port.etc.

Information explain:

IMEI: (IMEI Number)

MOD: SMS P2P(SMS mode) /SMS SC(SMS platform mode)/GPRS(GPRS mode)

GPS: ON/OFF(GPS module Turn on/off)/AUTO(GPS module working on Power down mode)

HFR: ON/OFF(Hands-free)

MTPRF: SILENT(Voice Monitoring Turn on)/NORMAL(Voice Monitoring Turn off)

BS: 1(The number of returned base station)

GEO-FENCE=ON/OFF - 000.00000,(Longitude directions.Longitude value)-00.00000(Latitude direction.Latitude value) R0.0(radius)

GEO-FENCE STATE:RS(geo-fence in alarm)/OS(geo-fence out alarm)

DEFENCE: ON/OFF(Main Power Cut Alarm Turn on/off)

VOICE: ON/OFF(Alarm SMS Turn on/off)

POWER: OFF(Cut car engine)/ ON(Recover car engine)

RATE: 0(Overspeed alarm KM/H)

ST: 0(Track by Preset Interval on SMS mode)

TN: (Receiving SMS Track by Preset Interval on SMS mode mobile phone Number)

INVALID UPLOAD: ON/OFF(Invalid Location data Upload turn on/off)

UNLIMITED: OFF/ON (OFF: gps tracker only responds to authorized phone number; ON: gps tracker responds to any phone number)

MILEAGE: 0,OFF (Mileage,Mileage statistics Turn on/off)

MOVE: 0.0(Move alarm radius),ON/OFF(Move alarm turn on/off)

ACC PROMPT: ON/OFF(ACC Switch status prompt turn on/off)

APN: cmnet,,(Access points name)

GU: V500,0000(GPRS user name and GPRS services password)

SRV: 0.0.0.0,0000(Server's IP address and port)

SAMP: 0,0(Record location by interval, Upload Record Location Quantity Per Time, when car moving(ACC ON))

SAMP2: 0,0(Record location by interval, Upload Record Location Quantity Per Time, when car stops(ACC OFF))

HISTORY: 0(GPRS Upload Interval of History Record)

TIME ZONE: E0(Time Zone)

U1: Number1

U2: Number2

U3: Number3

UP: 0000 (GPS Tracker user Password)

SC: ,0000 (SMS platform Number,Password)

Reset to default settings:	*RESET#****##	*RESET#0000##

Remarks: Return to the default settings after restart GPS tracker.

Restart GPS Tracker	*RESTART#****##	*RESTART#0000##

Remarks:Restart GPS Tracker

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List of default state:

Parameter	Default State
Working Mode	SMS
Pre-set phone numbers	Null
GPS Tracker user Password	0000
GPS	ON
ACC Switch status Prompt	ON
Send regularly location information	OFF
The number of returned base station	1
Press SOS button to call out	ON
Geo-fence	OFF
GPRS services password	0000
GPRS services user name	V500
APN	cmnet
Server's IP address and port	0.0.0.0 0000
GPRS data upload	OFF
Moving alarm	OFF
Speed alarm	OFF
Main Power Cut Alarm	OFF

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5. Track by 900D web based tracking software

5.1. Enable GPRS

Send the SMS to the tracker as following format:

	Command	Remark
Command format:	710****	**** is the default password. Default:0000
For example:	7100000	710 : Command code 0000: password, default 0000

5.2. Set APN

Send the SMS to the tracker as following format

	Command	Remark
Command format:	**Format 1:**#803#****#APN## **Format 2:**#803#****#APN# APN user name#APN password ##	**** is the default password. Default:0000 Use format 2 if your APN requires APN user name and APN password.
For example:	#803#0000#CMNET##	803 : Command code 0000: password, default 0000 CMNET: APN, is gateway to connect internet, Each country is different, please contact your SIM card provider for APN name.

5.3.Set IP and Port

Send the SMS to the tracker as following format:

	Command	Remark
Command format:	#804#****#IP#port##	**** is the default password. Default:0000
For example:	#804#0000#58.64.205.22#8886##	804 : Command code 0000: password, default 0000 **58.64.205.22** 800D Platform server IP **8886** 800D Platform server software Port

5.4.Upload data in preset time when car moving(ACC ON)

Send the SMS to the tracker as following format:

	Command	Remark
Command format:	#805#****#T#N##	**** is the default password. Default:0000 (1) T= Record location by interval, from 10 to 65535 in the unit of second. (2)N= Upload Record Location Quantity Per Time, from 1-50. (3)Upload location data interval=T*N N=0, close upload data by preset interval, the gps tracker will reply ”GPRS Timer Stop”
For example:	#805#0000#30#1##	805 : Command code 0000: password, default 0000 In this example: GTLT2 will send location every 30

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		seconds, 1 location reports per time **when car moving.(ACC ON)**

5.5. Upload data in preset time when car stops(ACC OFF)

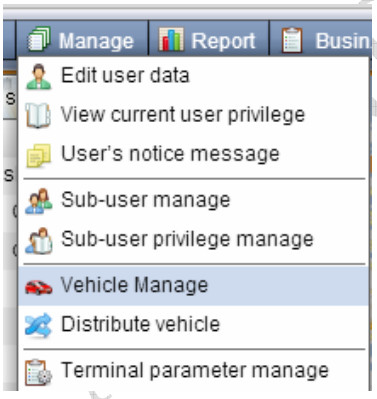
Send the SMS to the tracker as following format:

	Command	**Remark**
Command format:	#809#****#T#N##	**** is the default password. Default:0000 (1) T= Record location by interval, from 10 to 65535 in the unit of second. (2)N= Upload Record Location Quantity Per Time, from 1-50. (3)Upload location data interval=T*N N=0, close upload data by preset interval, the gps tracker will reply "GPRS Timer Stop"
For example:	#809#0000#1800#1##	809 : Command code 0000: password, default 0000 In this example: GTLT2 will send location every half an hour, 1 location reports per time **when car stop。(ACC OFF)**

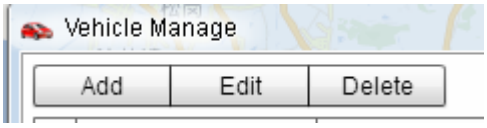
5.6. Please go to http://www1.igpstracking.net/

Enter the user name and password we provided.

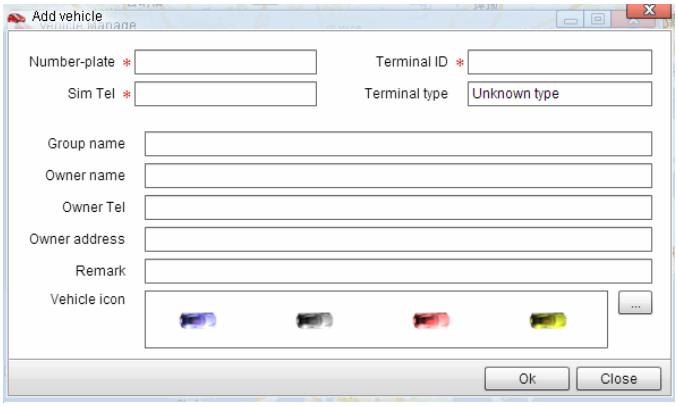
After log in, please go to "Manager- Vehicle Manager"



You will see the below window



Please click "Add" button, you will see the below window:

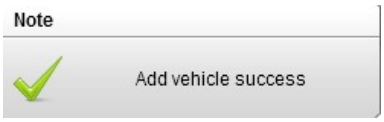


Number Plate: Define by yourself; you can enter A-Z number or Numeric

SIM card: the SIM card phone number you put in GTLT2.

Terminal ID: On the packing box of GTLT2, you can find the a white label writes “Terminal ID". Terminal ID is cf8866fefca898ef here.

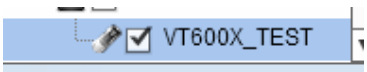
Click "Submit", and then you add the car successfully on the software 900d



Wait few seconds, and you will see the GPS Tracker online icon on software

Put a check mark on the device, and right click, you will see the menu as below picture. Now you can track online.

Attention: For 900D GPS Software, "Monitor" and "Number Plate" must be checked till the font becomes blue, then the GPS tracker will update location automatically on map.Like below picture:



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6.Troubleshooting

Problem: Unit will not turn on	
Possible Cause:	**Resolution:**
Wiring was not connected properly	Check and make sure wiring connection is in order.
Battery needs charging	Recharge battery
Problem: Unit will not respond to SMS	
Possible Cause:	**Resolution:**
GSM antenna was not installed properly	Make GTLT2 connected to GSM network.
GSM Network is slow	Some GSM networks slow down during peak time or when they have equipment problems.
Unit is sleeping	Cancel sleeping mode
Wrong password in your SMS or wrong SMS format	Write correct password or SMS format
The SIM in GTLT2 has run out of credit	Replace or top up the SIM card
No SIM card	Insert a working SIM card. Check in phone that the SIM can send SMS message.
SIM card has expired	Check in phone that the SIM can send SMS message. Replace SIM card if needed.
SIM has PIN code set	Remove PIN code by inserting SIM in you phone and deleting the code.
SIM is warped or damaged	Inspect SIM, clean the contacts. If re-inserting does not help try another to see if it will work.
Roaming not enabled	If you are in a different country your SIM account must have roaming enabled.
Error connecting GSM antenna	Make sure the GSM antenna is connected to the GSM interface.
Problem: SMS received starts with 'Last…'	
Possible Cause:	**Resolution:**
Unit does not have clear view of the sky	Move the antenna of the unit to a location where the sky is visible.
GTLT2 is in an inner place	Wait for the target to come out
Battery is low	Recharge the unit and the GPS will start working.
Error connecting GPS antenna	Make sure the GPS antenna is connected to the GPS interface.
Problem: Unit Fails to Connect to Server via GPRS	
Possible Cause:	**Resolution:**
SIM card in GTLT2 does not support GPRS function	Enable SIM card GPRS function.
GPRS function of GTLT2 is turned off	Turn on GPRS function of GTLT2.
Incorrect IP address or PORT	Get the right IP address and PORT and reset to GTLT2
GSM signal is weak	Move the unit to a location with good GSM reception.

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Contacts

If you encounter any problems when using our products, and cannot solve them by yourself, please contact our technical support team by writing an E-Mail to us. We will be pleased to help you.